

**ROBUST SUMMARY**  
**ALKYL SULFIDE CATEGORY**  
**CAS # 68511-50-2**  
**HEALTH ELEMENTS: ACUTE TOXICITY**

<b><u>Test Substance</u></b>	
CAS #	68511-50-2
Chemical Name	1-propene, 2-methyl-, sulfurized
Remarks	This substance is also referred to as methyl propene derivative in HERTG's Test Plan for Alkyl Sulfide Category. For more information on the chemical, see Section 2.0 "Chemical Description of Alkyl Sulfide Category" in HERTG's Test Plan for Alkyl Sulfide Category.
<b><u>Method</u></b>	
Method/Guideline followed	Litchfield and Wilcoxon (J. Pharm. & Exp. Therap. 96:99, 1949)
Test Type	Acute oral toxicity (LD50)
GLP (Y/N)	N
Year (Study Performed)	1979
Species/Strain	Rat/Wister
Sex	Male
No. of animals/sex/dose	40 (4 groups of 10)
Vehicle	None: administered undiluted
Route of administration	Oral gavage
Remarks field for test conditions	Rats fasted for 24 hours prior to dosing; Test material administered by gavage in a single oral dose at concentrations of 5.0, 7.12, 10.14, and 14.43 g/kg. Animals observed 3-4 hours after dosing and once daily for 14 days post-dosing. Mortality, toxicity, and pharmacological effects were recorded for each animal. Body weights were recorded pretest. At the end of 14 days, all survivors were sacrificed and all animals, including those which died during the course of the study, were examined for gross pathology.
<b><u>Results</u></b>	LC50 = (6.8 – 10.9)g/kg
Remarks	At 5.0 g/kg 2/10 died (1 at day 1 post dose and 1 at day 13 post dose); at 7.12 g/kg 4/10 died (3 at day 2 post dose and 1 at day 6 post dose); at 10.14 g/kg 6/10 died at day 2 post dose; at 14.43 g/kg 10/10 died (1 at day 1 post dose and 9 at day 2 post dose). Toxicity was observed for the following doses: at 5.0 g/kg lethargy, ataxia, ptosis, piloerection and flaccid muscle tone were noted in 5 or more animals. Isolated instances of diarrhea, chromorhinorrhea, chromodacryorrhea, and tachypnea were also noted; at 7.12 g/kg lethargy, diarrhea, piloerection, ptosis, chromodacryorrhea, ataxia, and chromorhinorrhea were noted in 5 or more animals. Isolated instances of tachypnea, respiratory noise and prostration were also noted; At 10.14 g/kg lethargy, diarrhea, chromorhinorrhea, ptosis, piloerection, chromodacryorrhea and ataxia were noted in 5 or more animals. Isolated instances of emaciation, prostration and hyperactivity were also noted; at 14.43 g/kg lethargy, ataxia, ptosis, diarrhea, chromorhinorrhea and piloerection were noted in 5 or more animals. Overall body weights increased slightly in the 5.0, 7.12, and 10.14

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	g/kg doses. No body weights were reported for the 14.43 g/kg dosed animals. Necropsy was also performed.
<b><u>Conclusions</u></b>	LD50 = 8.6 g/kg (male rats)
<b><u>Data Quality</u></b>	Reliable with restrictions State of the art LD50 oral toxicity study for 1979, multidose, calculated LD50, no reference to confidence limits. Non-GLP, details of the study design and other observations not presented. Used 16 CFR 1500.3(c) (2) (I) for toxicity definitions.
<b><u>References</u></b>	This robust summary was prepared from an unpublished study by an individual member company of the HERTG (the underlying study contains confidential business information).
<b><u>Other</u></b>	Updated: 12-28-99